



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10733969
Source: TFWG
Date Processed by STIC: 12/29/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/733,969

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleic
Wrapped Amino The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☒ Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 ☐ Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☐ Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ☐ Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (See 1.823 of Sequence Rules)
- 12 ☐ PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWC

RAW SEQUENCE LISTING

DATE: 12/29/2003

PATENT APPLICATION: US/10/733,969

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

3 <110> APPLICANT: CHEN, J I
 4 HU, L
 5 LIU, T H
 6 LU, Z H
 7 SHEN, Y
 8 <120> TITLE OF INVENTION: Specific Markers for Pancreatic Cancer
 9 <130> FILE REFERENCE: 21525
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/733,969
 C--> 11 <141> CURRENT FILING DATE: 2003-12-11
 12 <150> PRIOR APPLICATION NUMBER: EP 02028058.2
 13 <151> PRIOR FILING DATE: 2002-12-17
 14 <160> NUMBER OF SEQ ID NOS: 110
 15 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 412
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Homo sapiens
 21 <220> FEATURE:
 W--> 22 <221> NAME/KEY: Cathepsin D precursor
 23 <222> LOCATION: (1)..(412) *where*
 24 <223> OTHER INFORMATION: Accession NO: as of 06 Dec 2002: P07339
 25 <400> SEQUENCE: 1
 27 Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys Leu Leu Ala Ala
 28 1 5 10 15
 29 Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Ile
 30 20 25 30
 31 Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu Asp Leu Ile Ala
 32 35 40 45
 33 Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro Ala Val Thr Glu
 34 50 55 60
 35 Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp Ala Gln Tyr Tyr
 36 65 70 75 80
 37 Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe
 38 85 90 95
 39 Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu
 40 100 105 110
 41 Leu Asp Ile Ala Cys Trp Ile His Lys Tyr Asn Ser Asp Lys Ser
 42 115 120 125
 43 Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser

Does Not Comply
 Corrected Diskette Needed
 (pg. 1-30)

please insert
 this response in
 section 223

please insert
 this response
 in section
 23087-23097,
 per new
 sequence
 ruler.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

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44      130      135      140
45 Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys
46 145      150      155      160
47 Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val Lys Val Glu Arg
48      165      170      175
49 Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala
50      180      185      190
51 Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val
52      195      200      205
53 Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val
54      210      215      220
55 Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp Pro Asp Ala Gln
56 225      230      235      240
57 Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys
58      245      250      255
59 Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val
60      260      265      270
61 His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr Leu Cys Lys Glu
62      275      280      285
63 Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val Gly Pro
64      290      295      300
65 Val Asp Glu Val Arg Glu Leu Gln Lys Ala Ile Gly Ala Val Pro Leu
66 305      310      315      320
67 Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro
68      325      330      335
69 Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys Leu Ser Pro Glu
70      340      345      350
71 Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr Leu Cys Leu Ser
72      355      360      365
73 Gly Phe Met Gly Met Asp Ile Pro Pro Pro Ser Gly Pro Leu Trp Ile
74      370      375      380
75 Leu Gly Asp Val Phe Ile Gly Arg Tyr Tyr Thr Val Phe Asp Arg Asp
76 385      390      395      400
77 Asn Asn Arg Val Gly Phe Ala Glu Ala Ala Arg Leu
E--> 78 325 410 405 410 ← please see error summary sheet.
79 <210> SEQ ID NO: 2
80 <211> LENGTH: 414
81 <212> TYPE: PRT
82 <213> ORGANISM: Homo sapiens
83 <220> FEATURE:
84 <221> NAME/KEY: Isocitrate dehydrogenase [NADP] cytoplasmic
85 <222> LOCATION: 11-414 delete
86 <223> OTHER INFORMATION: Accession NO: as of 06 Dec 2002: 075874
87 <400> SEQUENCE: 2
88 Met Ser Lys Lys Ile Ser Gly Gly Ser Val Val Glu Met Gln Gly Asp
89 1      5      10      15
90 Glu Met Thr Arg Ile Ile Trp Glu Leu Ile Lys Glu Lys Leu Ile Phe
91      20      25      30
92 Pro Tyr Val Glu Leu Asp Leu His Ser Tyr Asp Leu Gly Ile Glu Asn

```

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DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

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96          35          40          45
97 Arg Asp Ala Thr Asn Asp Gln Val Thr Lys Asp Ala Ala Glu Ala Ile
98          50          55          60
99 Lys Lys His Asn Val Gly Val Lys Cys Ala Thr Ile Thr Pro Asp Glu
100 65          70          75          80
101 Lys Arg Val Glu Glu Phe Lys Leu Lys Gln Met Trp Lys Ser Pro Asn
102          85          90          95
103 Gly Thr Ile Arg Asn Ile Leu Gly Gly Thr Val Phe Arg Glu Ala Ile
104          100          105          110
105 Ile Cys Lys Asn Ile Pro Arg Leu Val Ser Gly Trp Val Lys Pro Ile
106          115          120          125
107 Ile Ile Gly Arg His Ala Tyr Gly Asp Gln Tyr Arg Ala Thr Asp Phe
108          130          135          140
109 Val Val Pro Gly Pro Gly Lys Val Glu Ile Thr Thr Pro Ser Asp
110 145          150          155          160
111 Gly Thr Gln Lys Val Thr Tyr Leu Val His Asn Phe Glu Glu Gly Gly
112          165          170          175
113 Gly Val Ala Met Gly Met Tyr Asn Gln Asp Lys Ser Ile Glu Asp Phe
114          180          185          190
115 Ala His Ser Ser Phe Gln Met Ala Leu Ser Lys Gly Trp Pro Leu Tyr
116          195          200          205
117 Leu Ser Thr Lys Asn Thr Ile Leu Lys Lys Tyr Asp Gly Arg Phe Lys
118          210          215          220
119 Asp Ile Phe Gln Glu Ile Tyr Asp Lys Gln Tyr Lys Ser Gln Phe Glu
120 225          230          235          240
121 Ala Gln Lys Ile Trp Tyr Glu His Arg Leu Ile Asp Asp Met Val Ala
122          245          250          255
123 Gln Ala Met Lys Ser Glu Gly Gly Phe Ile Trp Ala Cys Lys Asn Tyr
124          260          265          270
125 Asp Gly Asp Val Gln Ser Asp Ser Val Ala Gln Gly Tyr Gly Ser Leu
126          275          280          285
127 Gly Met Met Thr Ser Val Leu Val Cys Pro Asp Gly Lys Thr Val Glu
128          290          295          300
129 Ala Glu Ala Ala His Gly Thr Val Thr Arg His Tyr Arg Met Tyr Gln
130 305          310          315          320
131 Lys Gly Gln Glu Thr Ser Thr Asn Pro Ile Ala Ser Ile Phe Ala Trp
132          325          330          335
133 Thr Arg Gly Leu Ala His Arg Ala Lys Leu Asp Asn Asn Lys Glu Leu
134          340          345          350
135 Ala Phe Phe Ala Asn Ala Leu Glu Glu Val Ser Ile Glu Thr Ile Glu
136          355          360          365
137 Ala Gly Phe Met Thr Lys Asp Leu Ala Ala Cys Ile Lys Gly Leu Pro
138          370          375          380
139 Asn Val Gln Arg Ser Asp Tyr Leu Asn Thr Phe Glu Phe Met Asp Lys
140 385          390          395          400
141 Leu Gly Glu Asn Leu Lys Ile Lys Leu Ala Gln Ala Lys Leu

```

E--> 142 325 410
 255 <210> SEQ ID NO: 4
 256 <211> LENGTH: 764

410

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003
 TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt
 Output Set: N:\CRF4\12292003\J733969.raw

257 <212> TYPE: PRT
 258 <213> ORGANISM: Homo sapiens
 259 <220> FEATURE:
 W--> 260 <221> NAME/KEY: Complement factor B precursor *same error*
 261 <222> LOCATION: (1)..(764) *delete*
 262 <223> OTHER INFORMATION: Accession NO: as of 06 Dec 2002: P00751 *same error*
 263 <400> SEQUENCE: 4
 265 Met Gly Ser Asn Leu Ser Pro Gln Leu Cys Leu Met Pro Phe Ile Leu
 266 1 5 10 15
 267 Gly Leu Leu Ser Gly Gly Val Thr Thr Thr Pro Trp Ser Leu Ala Arg
 268 20 25 30
 269 Pro Gln Gly Ser Cys Ser Leu Glu Gly Val Glu Ile Lys Gly Gly Ser
 270 35 40 45
 271 Phe Arg Leu Leu Gln Glu Gly Gln Ala Leu Glu Tyr Val Cys Pro Ser
 272 50 55 60
 273 Gly Phe Tyr Pro Tyr Pro Val Gln Thr Arg Thr Cys Arg Ser Thr Gly
 274 65 70 75 80
 275 Ser Trp Ser Thr Leu Lys Thr Gln Asp Gln Lys Thr Val Arg Lys Ala
 276 85 90 95
 277 Glu Cys Arg Ala Ile His Cys Pro Arg Pro His Asp Phe Glu Asn Gly
 278 100 105 110
 279 Glu Tyr Trp Pro Arg Ser Pro Tyr Tyr Asn Val Ser Asp Glu Ile Ser
 280 115 120 125
 281 Phe His Cys Tyr Asp Gly Tyr Thr Leu Arg Gly Ser Ala Asn Arg Thr
 282 130 135 140
 283 Cys Gln Val Asn Gly Arg Trp Ser Gly Gln Thr Ala Ile Cys Asp Asn
 284 145 150 155 160
 285 Gly Ala Gly Tyr Cys Ser Asn Pro Gly Ile Pro Ile Gly Thr Arg Lys
 286 165 170 175
 287 Val Gly Ser Gln Tyr Arg Leu Glu Asp Ser Val Thr Tyr His Cys Ser
 288 180 185 190
 289 Arg Gly Leu Thr Leu Arg Gly Ser Gln Arg Arg Thr Cys Gln Glu Gly
 290 195 200 205
 291 Gly Ser Trp Ser Gly Thr Glu Pro Ser Cys Gln Asp Ser Phe Met Tyr
 292 210 215 220
 293 Asp Thr Pro Gln Glu Val Ala Glu Ala Phe Leu Ser Ser Leu Thr Glu
 294 225 230 235 240
 295 Thr Ile Glu Gly Val Asp Ala Glu Asp Gly His Gly Pro Gly Glu Gln
 296 245 250 255
 297 Gln Lys Arg Lys Ile Val Leu Asp Pro Ser Gly Ser Met Asn Ile Tyr
 298 260 265 270
 299 Leu Val Leu Asp Gly Ser Asp Ser Ile Gly Ala Ser Asn Phe Thr Gly
 300 275 280 285
 301 Ala Lys Lys Cys Leu Val Asn Leu Ile Glu Lys Val Ala Ser Tyr Gly
 302 290 295 300
 303 Val Lys Pro Arg Tyr Gly Leu Val Thr Tyr Ala Thr Tyr Pro Lys Ile
 304 305 310 315 320
 305 Trp Val Lys Val Ser Glu Ala Asp Ser Ser Asn Ala Asp Trp Val Thr
 306 325 330 335

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

307 Lys Gln Leu Asn Glu Ile Asn Tyr Glu Asp His Lys Leu Lys Ser Gly
308           340           345           350
309 Thr Asn Thr Lys Lys Ala Leu Gln Ala Val Tyr Ser Met Met Ser Trp
310           355           360           365
311 Pro Asp Asp Val Pro Pro Glu Gly Trp Asn Arg Thr Arg His Val Ile
312           370           375           380
313 Ile Leu Met Thr Asp Gly Leu His Asn Met Gly Gly Asp Pro Ile Thr
314 385           390           395           400
315 Val Ile Asp Glu Ile Arg Asp Leu Leu Tyr Ile Gly Lys Asp Arg Lys
316           405           410           415
317 Asn Pro Arg Glu Asp Tyr Leu Asp Val Tyr Val Phe Gly Val Gly Pro
318           420           425           430
319 Leu Val Asn Gln Val Asn Ile Asn Ala Leu Ala Ser Lys Lys Asp Asn
320           435           440           445
321 Glu Gln His Val Phe Lys Val Lys Asp Met Glu Asn Leu Glu Asp Val
322           450           455           460
323 Phe Tyr Gln Met Ile Asp Glu Ser Gln Ser Leu Ser Leu Cys Gly Met
324 465           470           475           480
325 Val Trp Glu His Arg Lys Gly Thr Asp Tyr His Lys Gln Pro Trp Gln
326           485           490           495
327 Ala Lys Ile Ser Val Ile Arg Pro Ser Lys Gly His Glu Ser Cys Met
328           500           505           510
329 Gly Ala Val Val Ser Glu Tyr Phe Val Leu Thr Ala Ala His Cys Phe
330           515           520           525
331 Thr Val Asp Asp Lys Glu His Ser Ile Lys Val Ser Val Gly Gly Glu
332           530           535           540
333 Lys Arg Asp Leu Glu Ile Glu Val Val Leu Phe His Pro Asn Tyr Asn
334 545           550           555           560
335 Ile Asn Gly Lys Lys Glu Ala Gly Ile Pro Glu Phe Tyr Asp Tyr Asp
336           565           570           575
337 Val Ala Leu Ile Lys Leu Lys Asn Lys Leu Lys Tyr Gly Gln Thr Ile
338           580           585           590
339 Arg Pro Ile Cys Leu Pro Cys Thr Glu Gly Thr Thr Arg Ala Leu Arg
340           595           600           605
341 Leu Pro Pro Thr Thr Thr Cys Gln Gln Lys Glu Glu Leu Leu Pro
342           610           615           620
343 Ala Gln Asp Ile Lys Ala Leu Phe Val Ser Glu Glu Glu Lys Lys Leu
344 625           630           635           640
345 Thr Arg Lys Glu Val Tyr Ile Lys Asn Gly Asp Lys Lys Gly Ser Cys
346           645           650           655
347 Glu Arg Asp Ala Gln Tyr Ala Pro Gly Tyr Asp Lys Val Lys Asp Ile
348           660           665           670
349 Ser Glu Val Val Thr Pro Arg Phe Leu Cys Thr Gly Gly Val Ser Pro
350           675           680           685
351 Tyr Ala Asp Pro Asn Thr Cys Arg Gly Asp Ser Gly Gly Pro Leu Ile
352           690           695           700
353 Val His Lys Arg Ser Arg Phe Ile Gln Val Gly Val Ile Ser Trp Gly
354 705           710           715           720
355 val Val Asp Val Cys Lys Asn Gln Lys Arg Gln Lys Gln Val Pro Ala

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003
TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt
Output Set: N:\CRF4\12292003\J733969.raw

356 725 730 735
357 His Ala Arg Asp Phe His Ile Asn Leu Phe Gln Val Leu Pro Trp Leu
358 740 745 750
359 Lys Glu Lys Leu Gln Asp Glu Asp Leu Gly Phe Leu
E--> 360 325 760 755 760
489 <210> SEQ ID NO: 6
490 <211> LENGTH: 683
491 <212> TYPE: PRT
492 <213> ORGANISM: Homo sapiens
493 <220> FEATURE:
W--> 494 <221> NAME/KEY: Transforming growth factor-beta induced protein IG-H3 precursor
495 <222> LOCATION: (1..683) - 760
496 <223> OTHER INFORMATION: Accession NO: as of 06 Dec 2002: Q15582
497 <400> SEQUENCE: 6
499 Met Ala Leu Phe Val Arg Leu Leu Ala Leu Ala Leu Ala Leu
500 1 5 10 15
501 Gly Pro Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu
502 20 25 30
503 Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val
504 35 40 45
505 Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn
506 50 55 60
507 Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile
508 65 70 75 80
509 Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly
510 85 90 95
511 Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val
512 100 105 110
513 Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu
514 115 120 125
515 Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser
516 130 135 140
517 Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val
518 145 150 155 160
519 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
520 165 170 175
521 Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr
522 180 185 190
523 Ser Met Tyr Gln Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly
524 195 200 205
525 Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala
526 210 215 220
527 Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr
528 225 230 235 240
529 Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu
530 245 250 255
531 Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn
532 260 265 270
533 Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile

same errors

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Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

534	275	280	285
535 Pro Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg			
536 290 295 300			
537 Asp Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala			
538 305 310 315 320			
539 Ile Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu			
540 325 330 335			
541 Val Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile			
542 340 345 350			
543 Ser Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp			
544 355 360 365			
545 Glu Leu Leu Ile Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala			
546 370 375 380			
547 Glu Ser Asp Val Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu			
548 385 390 395 400			
549 Gly Asn His Leu Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu			
550 405 410 415			
551 Asn Ser Val Phe Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg			
552 420 425 430			
553 Asn Leu Leu Arg Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr			
554 435 440 445			
555 Leu Tyr His Gly Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg			
556 450 455 460			
557 Val Phe Val Tyr Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala			
558 465 470 475 480			
559 Ala His Asp Lys Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg			
560 485 490 495			
561 Val Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp			
562 500 505 510			
563 Asn Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr			
564 515 520 525			
565 Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn			
566 530 535 540			
567 Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly			
568 545 550 555 560			
569 Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu			
570 565 570 575			
571 Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu			
572 580 585 590			
573 Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val			
574 595 600 605			
575 Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val			
576 610 615 620			
577 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln			
578 625 630 635 640			
579 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln			
580 645 650 655			
581 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro			
582 660 665 670			

RAW SEQUENCE LISTING
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Input Set : A:\21525 sequence listing.txt
Output Set: N:\CRF4\12292003\J733969.raw

583 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His
E--> 584 ~~325 680 675~~ 680
587 <210> SEQ ID NO: 7
588 <211> LENGTH: 892
589 <212> TYPE: PRT
590 <213> ORGANISM: Homo sapiens
591 <220> FEATURE:
W--> 592 <221> NAME/KEY: Alpha-actinin 1 delete
593 <222> LOCATION: (1)..(892)
594 <223> OTHER INFORMATION: Accession NO: P12814
595 <400> SEQUENCE: 7
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599 Glu Asp Trp Asp Arg Asp Leu Leu Leu Asp Pro Ala Trp Glu Lys Gln
600 20 25 30
601 Gln Arg Lys Thr Phe Thr Ala Trp Cys Asn Ser His Leu Arg Lys Ala
602 35 40 45
603 Gly Thr Gln Ile Glu Asn Ile Glu Glu Asp Phe Arg Asp Gly Leu Lys
604 50 55 60
605 Leu Met Leu Leu Leu Glu Val Ile Ser Gly Glu Arg Leu Ala Lys Pro
606 65 70 75 80
607 Glu Arg Gly Lys Met Arg Val His Lys Ile Ser Asn Val Asn Lys Ala
608 85 90 95
609 Leu Asp Phe Ile Ala Ser Lys Gly Val Lys Leu Val Ser Ile Gly Ala
610 100 105 110
611 Glu Glu Ile Val Asp Gly Asn Val Lys Met Thr Leu Gly Met Ile Trp
612 115 120 125
613 Thr Ile Ile Leu Arg Phe Ala Ile Gln Asp Ile Ser Val Glu Glu Thr
614 130 135 140
615 Ser Ala Lys Glu Gly Leu Leu Leu Trp Cys Gln Arg Lys Thr Ala Pro
616 145 150 155 160
617 Tyr Lys Asn Val Asn Ile Gln Asn Phe His Ile Ser Trp Lys Asp Gly
618 165 170 175
619 Leu Gly Phe Cys Ala Leu Ile His Arg His Arg Pro Glu Leu Ile Asp
620 180 185 190
621 Tyr Gly Lys Leu Arg Lys Asp Asp Pro Leu Thr Asn Leu Asn Thr Ala
622 195 200 205
623 Phe Asp Val Ala Glu Lys Tyr Leu Asp Ile Pro Lys Met Leu Asp Ala
624 210 215 220
625 Glu Asp Ile Val Gly Thr Ala Arg Pro Asp Glu Lys Ala Ile Met Thr
626 225 230 235 240
627 Tyr Val Ser Ser Phe Tyr His Ala Phe Ser Gly Ala Gln Lys Ala Glu
628 245 250 255
629 Thr Ala Ala Asn Arg Ile Cys Lys Val Leu Ala Val Asn Gln Glu Asn
630 260 265 270
631 Glu Gln Leu Met Glu Asp Tyr Glu Lys Leu Ala Ser Asp Leu Leu Glu
632 275 280 285
633 Trp Ile Arg Arg Thr Ile Pro Trp Leu Glu Asn Arg Val Pro Glu Asn
634 290 295 300

same errors

RAW SEQUENCE LISTING

DATE: 12/29/2003

PATENT APPLICATION: US/10/733,969

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

635 Thr Met His Ala Met Gln Gln Lys Leu Glu Asp Phe Arg Asp Tyr Arg
636 305 310 315 320
637 Arg Leu His Lys Pro Pro Lys Val Gln Glu Lys Cys Gln Leu Glu Ile
638 325 330 335
639 Asn Phe Asn Thr Leu Gln Thr Lys Leu Arg Leu Ser Asn Arg Pro Ala
640 340 345 350
641 Phe Met Pro Ser Glu Gly Arg Met Val Ser Asp Ile Asn Asn Ala Trp
642 355 360 365
643 Gly Cys Leu Glu Gln Val Glu Lys Gly Tyr Glu Glu Trp Leu Leu Asn
644 370 375 380
645 Glu Ile Arg Arg Leu Glu Arg Leu Asp His Leu Ala Glu Lys Phe Arg
646 385 390 395 400
647 Gln Lys Ala Ser Ile His Glu Ala Trp Thr Asp Gly Lys Glu Ala Met
648 405 410 415
649 Leu Arg Gln Lys Asp Tyr Glu Thr Ala Thr Leu Ser Glu Ile Lys Ala
650 420 425 430
651 Leu Leu Lys Lys His Glu Ala Phe Glu Ser Asp Leu Ala Ala His Gln
652 435 440 445
653 Asp Arg Val Glu Gln Ile Ala Ala Ile Ala Gln Glu Leu Asn Glu Leu
654 450 455 460
655 Asp Tyr Tyr Asp Ser Pro Ser Val Asn Ala Arg Cys Gln Lys Ile Cys
656 465 470 475 480
657 Asp Gln Trp Asp Asn Leu Gly Ala Leu Thr Gln Lys Arg Arg Glu Ala
658 485 490 495
659 Leu Glu Arg Thr Glu Lys Leu Leu Glu Thr Ile Asp Gln Leu Tyr Leu
660 500 505 510
661 Glu Tyr Ala Lys Arg Ala Ala Pro Phe Asn Asn Trp Met Glu Gly Ala
662 515 520 525
663 Met Glu Asp Leu Gln Asp Thr Phe Ile Val His Thr Ile Glu Glu Ile
664 530 535 540
665 Gln Gly Leu Thr Thr Ala His Glu Gln Phe Lys Ala Thr Leu Pro Asp
666 545 550 555 560
667 Ala Asp Lys Glu Arg Leu Ala Ile Leu Gly Ile His Asn Glu Val Ser
668 565 570 575
669 Lys Ile Val Gln Thr Tyr His Val Asn Met Ala Gly Thr Asn Pro Tyr
670 580 585 590
671 Thr Thr Ile Thr Pro Gln Glu Ile Asn Gly Lys Trp Asp His Val Arg
672 595 600 605
673 Gln Leu Val Pro Arg Arg Asp Gln Ala Leu Thr Glu Glu His Ala Arg
674 610 615 620
675 Gln Gln His Asn Glu Ser Val Arg Lys Gln Phe Gly Ala Gln Ala Asn
676 625 630 635 640
677 Val Ile Gly Pro Trp Ile Gln Thr Lys Met Glu Glu Ile Gly Arg Ile
678 645 650 655
679 Ser Ile Glu Met His Gly Thr Leu Glu Asp Gln Leu Ser His Leu Arg
680 660 665 670
681 Gln Tyr Glu Lys Ser Ile Val Asn Tyr Lys Pro Lys Ile Asp Gln Leu
682 675 680 685
683 Glu Gly Asp His Gln Leu Ile Gln Glu Ala Leu Ile Phe Asp Asn Lys

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

684      690      695      700
685 His Thr Asn Tyr Thr Met Glu His Ile Arg Val Gly Trp Glu Gln Leu
686 705      710      715      720
687 Leu Thr Thr Ile Ala Arg Thr Ile Asn Glu Val Glu Asn Gln Ile Leu
688      725      730      735
689 Thr Arg Asp Ala Lys Gly Ile Ser Gln Glu Gln Met Asn Glu Phe Arg
690      740      745      750
691 Ala Ser Phe Asn His Phe Asp Arg Asp His Ser Gly Thr Leu Gly Pro
692      755      760      765
693 Glu Glu Phe Lys Ala Cys Leu Ile Ser Leu Gly Tyr Asp Ile Gly Asn
694      770      775      780
695 Asp Pro Gln Gly Glu Ala Glu Phe Ala Arg Ile Met Ser Ile Val Asp
696 785      790      795      800
697 Pro Asn Arg Leu Gly Val Val Thr Phe Gln Ala Phe Ile Asp Phe Met
698      805      810      815
699 Ser Arg Glu Thr Ala Asp Thr Asp Thr Ala Asp Gln Val Met Ala Ser
700      820      825      830
701 Phe Lys Ile Leu Ala Gly Asp Lys Asn Tyr Ile Thr Met Asp Glu Leu
702      835      840      845
703 Arg Arg Glu Leu Pro Pro Asp Gln Ala Glu Tyr Cys Ile Ala Arg Met
704      850      855      860
705 Ala Pro Tyr Thr Gly Pro Asp Ser Val Pro Gly Ala Leu Asp Tyr Met
706 865      870      875      880
707 Ser Phe Ser Thr Ala Leu Tyr Gly Glu Ser Asp Leu

E--> 708 825 890 895 890
1221 <210> SEQ ID NO: 12
1222 <211> LENGTH: 793
1223 <212> TYPE: PRS
1224 <213> ORGANISM: Homo sapiens
1225 <220> FEATURE:
W--> 1226 <221> NAME/KEY: Caldesmon delete
1227 <222> LOCATION: (1)..(793)
1228 <223> OTHER INFORMATION: (Accession NO: as of 06 Dec 2002: Q05682)
1229 <400> SEQUENCE: 12
1231 Met Asp Asp Phe Glu Arg Arg Arg Glu Leu Arg Arg Gln Lys Arg Glu
1232 1      5      10      15
1233 Glu Met Arg Leu Glu Ala Glu Arg Ile Ala Tyr Gln Arg Asn Asp Asp
1234      20      25      30
1235 Asp Glu Glu Glu Ala Ala Arg Glu Arg Arg Arg Ala Arg Gln Glu
1236      35      40      45
1237 Arg Leu Arg Gln Lys Gln Glu Glu Glu Ser Leu Gly Gln Val Thr Asp
1238      50      55      60
1239 Gln Val Glu Val Asn Ala Gln Asn Ser Val Pro Asp Glu Glu Ala Lys
1240 65      70      75      80
1241 Thr Thr Thr Thr Asn Thr Gln Val Glu Gly Asp Asp Glu Ala Ala Phe
1242      85      90      95
1243 Leu Glu Arg Leu Ala Arg Arg Glu Glu Arg Arg Gln Lys Arg Leu Gln
1244      100      105      110
1245 Glu Ala Leu Glu Arg Gln Lys Glu Phe Asp Pro Thr Ile Thr Asp Ala

```

same errors

RAW SEQUENCE LISTING

DATE: 12/29/2003

PATENT APPLICATION: US/10/733,969

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

1246          115          120          125
1247 Ser Leu Ser Leu Pro Ser Arg Arg Met Gln Asn Asp Thr Ala Glu Asn
1248          130          135          140
1249 Glu Thr Thr Glu Lys Glu Glu Lys Ser Glu Ser Arg Gln Glu Arg Tyr
1250 145          150          155          160
1251 Glu Ile Glu Glu Thr Glu Thr Val Thr Lys Ser Tyr Gln Lys Asn Asp
1252          165          170          175
1253 Trp Arg Asp Ala Glu Glu Asn Lys Lys Glu Asp Lys Glu Lys Glu Glu
1254          180          185          190
1255 Glu Glu Glu Glu Lys Pro Lys Arg Gly Ser Ile Gly Glu Asn Gln Val
1256          195          200          205
1257 Glu Val Met Val Glu Glu Lys Thr Thr Glu Ser Gln Glu Glu Thr Val
1258          210          215          220
1259 Val Met Ser Leu Lys Asn Gly Gln Ile Ser Ser Glu Glu Pro Lys Gln
1260 225          230          235          240
1261 Glu Glu Glu Arg Glu Gln Gly Ser Asp Glu Ile Ser His His Glu Lys
1262          245          250          255
1263 Met Glu Glu Glu Asp Lys Glu Arg Ala Glu Ala Glu Arg Ala Arg Leu
1264          260          265          270
1265 Glu Ala Glu Glu Arg Glu Arg Ile Lys Ala Glu Gln Asp Lys Lys Ile
1266          275          280          285
1267 Ala Asp Glu Arg Ala Arg Ile Glu Ala Glu Glu Lys Ala Ala Ala Gln
1268          290          295          300
1269 Glu Arg Glu Arg Arg Glu Ala Glu Glu Arg Glu Met Arg Glu Glu
1270 305          310          315          320
1271 Glu Lys Arg Ala Ala Glu Glu Arg Gln Arg Ile Lys Glu Glu Glu Lys
1272          325          330          335
1273 Arg Ala Ala Glu Glu Arg Gln Arg Ile Lys Glu Glu Glu Lys Arg Ala
1274          340          345          350
1275 Ala Glu Glu Arg Gln Arg Ile Lys Glu Glu Glu Lys Arg Ala Ala Glu
1276          355          360          365
1277 Glu Arg Gln Arg Ala Arg Ala Glu Glu Glu Lys Ala Lys Val Glu
1278          370          375          380
1279 Glu Gln Lys Arg Asn Lys Gln Leu Glu Glu Lys Lys Arg Ala Met Gln
1280 385          390          395          400
1281 Glu Thr Lys Ile Lys Gly Glu Lys Val Glu Gln Lys Ile Glu Gly Lys
1282          405          410          415
1283 Trp Val Asn Glu Lys Lys Ala Gln Glu Asp Lys Leu Gln Thr Ala Val
1284          420          425          430
1285 Leu Lys Lys Gln Gly Glu Glu Lys Gly Thr Lys Val Gln Ala Lys Arg
1286          435          440          445
1287 Glu Lys Leu Gln Glu Asp Lys Pro Thr Phe Lys Lys Glu Glu Ile Lys
1288          450          455          460
1289 Asp Glu Lys Ile Lys Lys Asp Lys Glu Pro Lys Glu Glu Val Lys Ser
1290 465          470          475          480
1291 Phe Met Asp Arg Lys Lys Gly Phe Thr Glu Val Lys Ser Gln Asn Gly
1292          485          490          495
1293 Glu Phe Met Thr His Lys Leu Lys His Thr Glu Asn Thr Phe Ser Arg
1294          500          505          510

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

1295 Pro Gly Gly Arg Ala Ser Val Asp Thr Lys Glu Ala Glu Gly Ala Pro
1296          515          520          525
1297 Gln Val Glu Ala Gly Lys Arg Leu Glu Glu Leu Arg Arg Arg Gly
1298          530          535          540
1299 Glu Thr Glu Ser Glu Glu Phe Glu Lys Leu Lys Gln Lys Gln Glu
1300 545          550          555          560
1301 Ala Ala Leu Glu Leu Glu Glu Leu Lys Lys Lys Arg Glu Glu Arg Arg
1302          565          570          575
1303 Lys Val Leu Glu Glu Glu Glu Gln Arg Arg Lys Gln Glu Glu Ala Asp
1304          580          585          590
1305 Arg Lys Leu Arg Glu Glu Glu Glu Lys Arg Arg Leu Lys Glu Glu Ile
1306          595          600          605
1307 Glu Arg Arg Arg Ala Glu Ala Ala Glu Lys Arg Gln Lys Met Pro Glu
1308          610          615          620
1309 Asp Gly Leu Ser Asp Asp Lys Lys Pro Phe Lys Cys Phe Thr Pro Lys
1310 625          630          635          640
1311 Gly Ser Ser Leu Lys Ile Glu Glu Arg Ala Glu Phe Leu Asn Lys Ser
1312          645          650          655
1313 Val Gln Lys Ser Ser Gly Val Lys Ser Thr His Gln Ala Ala Ile Val
1314          660          665          670
1315 Ser Lys Ile Asp Ser Arg Leu Glu Gln Tyr Thr Ser Ala Ile Glu Gly
1316          675          680          685
1317 Thr Lys Ser Ala Lys Pro Thr Lys Pro Ala Ala Ser Asp Leu Pro Val
1318          690          695          700
1319 Pro Ala Glu Gly Val Arg Asn Ile Lys Ser Met Trp Glu Lys Gly Asn
1320 705          710          715          720
1321 Val Phe Ser Ser Pro Thr Ala Ala Gly Thr Pro Asn Lys Glu Thr Ala
1322          725          730          735
1323 Gly Leu Lys Val Gly Val Ser Ser Arg Ile Asn Glu Trp Leu Thr Lys
1324          740          745          750
1325 Thr Pro Asp Gly Asn Lys Ser Pro Ala Pro Lys Pro Ser Asp Leu Arg
1326          755          760          765
1327 Pro Gly Asp Val Ser Ser Lys Arg Asn Leu Trp Glu Lys Gln Ser Val
1328          770          775          780
1329 Asp Lys Val Thr Ser Pro Thr Lys Val

```

E--> 1330 785 (790) 790

1333 <210> SEQ ID NO: 13

1334 <211> LENGTH: 458

1335 <212> TYPE: PRT

1336 <213> ORGANISM: Homo sapiens

1337 <220> FEATURE:

W--> 1338 <221> NAME/KEY: Alpha enolase

1339 <222> LOCATION: (1..(458))

1340 <223> OTHER INFORMATION: Accession NO: as of 06 Dec 2002: Q05524

1341 <400> SEQUENCE: 13

1343 Met Ser Ile Leu Lys Ile Ile His Ala Arg Asp Ile Phe Glu Ser Arg

1344 1 5 10 15

1345 Gly Asn Pro Thr Val Glu Val Asp Leu Tyr Thr Asn Lys Gly Gly Leu

1346 20 25 30

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

1347 Phe Gly Arg Ala Ala Val Pro Ser Gly Ala Ser Thr Gly Ile Tyr Glu
1348      35      40      45
1349 Ala Leu Leu Glu Leu Arg Asp Asn Asp Lys Thr Arg Tyr Met Gly Gly
1350      50      55      60
1351 Lys Gly Val Ser Lys Ala Val Glu His Ile Ile Asn Lys Thr Ile Ala
1352 65      70      75      80
1353 Pro Ala Leu Ile Ser Lys Asn Val Asn Val Val Glu Gln Asp Lys Ile
1354      85      90      95
1355 Asp Asn Leu Met Leu Asp Met Asp Gly Ser Glu Asn Lys Ser Lys Phe
1356      100     105     110
1357 Gly Ala Asn Ala Ile Leu Gly Val Ser Leu Ala Val Cys Ser Asn Ala
1358      115     120     125
1359 Gly Ala Thr Ala Glu Lys Gly Val Pro Leu Tyr Arg His Ile Ala Asp
1360      130     135     140
1361 Leu Ala Gly Asn Asn Pro Glu Val Ile Leu Pro Val Pro Ala Phe Asn
1362 145     150     155     160
1363 Val Ile Asn Gly Gly Ser His Ala Gly Asn Lys Leu Ala Met Gln Glu
1364      165     170     175
1365 Phe Met Ile Pro Pro Cys Gly Ala Asp Arg Phe Asn Asp Ala Ile Arg
1366      180     185     190
1367 Ile Gly Ala Glu Val Tyr His Asn Leu Lys Asn Val Ile Lys Glu Lys
1368      195     200     205
1369 Tyr Gly Lys Asp Ala Thr Asn Val Gly Asp Glu Gly Gly Phe Ala Pro
1370      210     215     220
1371 Asn Ile Leu Glu Asn Lys Glu Ala Leu Glu Leu Leu Lys Thr Ala Ile
1372 225     230     235     240
1373 Gly Lys Ala Gly Tyr Ser Asp Lys Val Val Ile Gly Met Asp Val Ala
1374      245     250     255
1375 Ala Ser Glu Phe Tyr Arg Asp Gly Lys Tyr Asp Leu Asp Phe Asn Ser
1376      260     265     270
1377 Pro Asp Asp Pro Ser Arg Tyr Ile Ser Pro Asp Gln Leu Ala Asp Leu
1378      275     280     285
1379 Tyr Lys Gly Phe Val Leu Gly His Ala Val Lys Asn Tyr Pro Val Gly
1380      290     295     300
1381 Val Ser Ile Glu Asp Pro Pro Phe Asp Gln Asp Asp Trp Gly Ala Trp
1382 305     310     315     320
1383 Lys Lys Leu Phe Thr Gly Ser Leu Val Gly Ile Gln Val Val Gly Asp
1384      325     330     335
1385 Asp Leu Thr Val Thr Lys Pro Glu Ala Arg Ile Ala Lys Ala Val Glu
1386      340     345     350
1387 Glu Val Lys Ala Cys Asn Cys Leu Leu Leu Lys Val Asn Gln Ile
1388      355     360     365
1389 Gly Ser Val Thr Glu Ser Leu Gln Ala Cys Lys Leu Ala Gln Ser Asn
1390      370     375     380
1391 Gly Trp Gly Val Met Pro Val Ser His Arg Leu Ser Gly Glu Thr Glu
1392 385     390     395     400
1393 Asp Thr Phe Met Ala Asp Leu Val Val Gly Leu Cys Thr Gly Gln Ile
1394      405     410     415
1395 Lys Thr Gly Pro Thr Cys Arg Ser Glu Arg Leu Ala Lys Tyr Asn Gln

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

1396 420 425 430
 1397 Leu Leu Arg Ile Glu Glu Ala Glu Ala Gly Ser Lys Ala Arg Phe Ala
 1398 435 440 445
 1399 Gly Arg Asn Phe Arg Asn Pro Arg Ile Asn
 E--> 1400 ~~325~~ 450 455
 1565 <210> SEQ ID NO: 17
 1566 <211> LENGTH: 250
 1567 <212> TYPE: PRT
 1568 <213> ORGANISM: Homo sapiens
 1569 <220> FEATURE:
 W--> 1570 <221> NAME/KEY: Galectin-3 (Galactose-specific lectin 3)
 1571 <222> LOCATION: (1)..(250) ~~deleted~~
 1572 <223> OTHER INFORMATION: (Accession NO: as of 06 Dec 2002: P17931)
 1573 <400> SEQUENCE: 17
 1575 Met Ala Asp Asn Phe Ser Leu His Asp Ala Leu Ser Gly Ser Gly Asn
 1576 1 5 10 15
 1577 Pro Asn Pro Gln Gly Trp Pro Gly Ala Trp Gly Asn Gln Pro Ala Gly
 1578 20 25 30
 1579 Ala Gly Gly Tyr Pro Gly Ala Ser Tyr Pro Gly Ala Tyr Pro Gly Gln
 1580 35 40 45
 1581 Ala Pro Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro Gly Ala Tyr His
 1582 50 55 60
 1583 Gly Ala Pro Gly Ala Tyr Pro Gly Ala Pro Ala Pro Gly Val Tyr Pro
 1584 65 70 75 80
 1585 Gly Pro Pro Ser Gly Pro Gly Ala Tyr Pro Ser Ser Gly Gln Pro Ser
 1586 85 90 95
 1587 Ala Pro Gly Ala Tyr Pro Ala Thr Gly Pro Tyr Gly Ala Pro Ala Gly
 1588 100 105 110
 1589 Pro Leu Ile Val Pro Tyr Asn Leu Pro Leu Pro Gly Gly Val Val Pro
 1590 115 120 125
 1591 Arg Met Leu Ile Thr Ile Leu Gly Thr Val Lys Pro Asn Ala Asn Arg
 1592 130 135 140
 1593 Ile Ala Leu Asp Phe Gln Arg Gly Asn Asp Val Ala Phe His Phe Asn
 1594 145 150 155 160
 1595 Pro Arg Phe Asn Glu Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys
 1596 165 170 175
 1597 Leu Asp Asn Asn Trp Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe
 1598 180 185 190
 1599 Glu Ser Gly Lys Pro Phe Lys Ile Gln Val Leu Val Glu Pro Asp His
 1600 195 200 205
 1601 Phe Lys Val Ala Val Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg
 1602 210 215 220
 1603 Val Lys Lys Leu Asn Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile
 1604 225 230 235 240
 1605 Asp Leu Thr Ser Ala Ser Tyr Thr Met Ile
 E--> 1606 ~~325~~ 250 245 250
 1609 <210> SEQ ID NO: 18
 1610 <211> LENGTH: 347
 1611 <212> TYPE: PRT

same errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

1612 <213> ORGANISM: Homo sapiens
 1613 <220> FEATURE:
 W--> 1614 <221> NAME/KEY: Voltage-dependent anion-selective channel protein 2 (VDAC-2)
 1615 <222> LOCATION: (1)..(347) delete
 1616 <223> OTHER INFORMATION: Accession NO:as of 06 Dec 2002: P45880
 1617 <400> SEQUENCE: 18
 1619 Met Ser Trp Cys Asn Glu Leu Arg Leu Pro Ala Leu Lys Gln His Ser
 1620 1 5 10 15
 1621 Ile Gly Arg Gly Leu Glu Ser His Ile Thr Met Cys Ile Pro Pro Ser
 1622 20 25 30
 1623 Tyr Ala Asp Leu Gly Lys Ala Ala Arg Asp Ile Phe Asn Lys Gly Phe
 1624 35 40 45
 1625 Gly Phe Gly Leu Val Lys Leu Asp Val Lys Thr Lys Ser Cys Ser Gly
 1626 50 55 60
 1627 Val Glu Phe Ser Thr Ser Gly Ser Ser Asn Thr Asp Thr Gly Lys Val
 1628 65 70 75 80
 1629 Thr Gly Thr Leu Glu Thr Lys Tyr Lys Trp Cys Glu Tyr Gly Leu Thr
 1630 85 90 95
 1631 Phe Thr Glu Lys Trp Asn Thr Asp Asn Thr Leu Gly Thr Glu Ile Ala
 1632 100 105 110
 1633 Ile Glu Asp Gln Ile Cys Gln Gly Leu Lys Leu Thr Phe Asp Thr Thr
 1634 115 120 125
 1635 Phe Ser Pro Asn Thr Gly Lys Lys Ser Gly Lys Ile Lys Ser Ser Tyr
 1636 130 135 140
 1637 Lys Arg Glu Cys Ile Asn Leu Gly Cys Asp Val Asp Phe Asp Phe Ala
 1638 145 150 155 160
 1639 Gly Pro Ala Ile His Gly Ser Ala Val Phe Gly Tyr Glu Gly Trp Leu
 1640 165 170 175
 1641 Ala Gly Tyr Gln Met Thr Phe Asp Ser Ala Lys Ser Lys Leu Thr Arg
 1642 180 185 190
 1643 Asn Asn Phe Ala Val Gly Tyr Arg Thr Gly Asp Phe Gln Leu His Thr
 1644 195 200 205
 1645 Asn Val Asn Asp Gly Thr Glu Phe Gly Gly Ser Ile Tyr Gln Lys Val
 1646 210 215 220
 1647 Cys Glu Asp Leu Asp Thr Ser Val Asn Leu Ala Trp Thr Ser Gly Thr
 1648 225 230 235 240
 1649 Asn Cys Thr Arg Phe Gly Ile Ala Ala Lys Tyr Gln Leu Asp Pro Thr
 1650 245 250 255
 1651 Ala Ser Ile Ser Ala Lys Val Asn Asn Ser Ser Leu Ile Gly Val Gly
 1652 260 265 270
 1653 Tyr Thr Gln Thr Leu Arg Pro Gly Val Lys Leu Thr Leu Ser Ala Leu
 1654 275 280 285
 1655 Val Asp Gly Lys Ser Ile Asn Ala Gly Gly His Lys Val Gly Ser Pro
 1656 290 295 300
 1657 Trp Ser Trp Arg Leu Asn Pro Ala Glu Arg Asn Leu Trp Glu Trp Ile
 1658 305 310 315 320
 1659 Ser Glu Asp Leu Ala Leu Ile Tyr Phe His Cys Asp Gln Gln Ala
 1660 325 330 335
 1661 Phe Phe Pro Pro Glu Asp Asp Gln Asn Lys Gly

340

345

Same errors

RAW SEQUENCE LISTING

DATE: 12/29/2003

PATENT APPLICATION: US/10/733,969

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

E--> 1662 ~~325 345~~

2320 <210> SEQ ID NO: 27
 2321 <211> LENGTH: 216
 2322 <212> TYPE: PRF
 2323 <213> ORGANISM: Homo sapiens
 2324 <220> FEATURE:

W--> 2325 <221> NAME/KEY: GTP-binding nuclear protein RAN

2326 <222> LOCATION: (1)..(216) ~~delete~~
 2327 <223> OTHER INFORMATION: (Accession NO: as of 09 Dec 2002: P17080)
 2328 <400> SEQUENCE: 27
 2330 Met Ala Ala Gln Gly Glu Pro Gln Val Gln Phe Lys Leu Val Leu Val
 2331 1 5 10 15
 2332 Gly Asp Gly Gly Thr Gly Lys Thr Thr Phe Val Lys Arg His Leu Thr
 2333 20 25 30
 2334 Gly Glu Phe Glu Lys Lys Tyr Val Ala Thr Leu Gly Val Glu Val His
 2335 35 40 45
 2336 Pro Leu Val Phe His Thr Asn Arg Gly Pro Ile Lys Phe Asn Val Trp
 2337 50 55 60
 2338 Asp Thr Ala Gly Gln Glu Lys Phe Gly Gly Leu Arg Asp Gly Tyr Tyr
 2339 65 70 75 80
 2340 Ile Gln Ala Gln Cys Ala Ile Ile Met Phe Asp Val Thr Ser Arg Val
 2341 85 90 95
 2342 Thr Tyr Lys Asn Val Pro Asn Trp His Arg Asp Leu Val Arg Val Cys
 2343 100 105 110
 2344 Glu Asn Ile Pro Ile Val Leu Cys Gly Asn Lys Val Asp Ile Lys Asp
 2345 115 120 125
 2346 Arg Lys Val Lys Ala Lys Ser Ile Val Phe His Arg Lys Lys Asn Leu
 2347 130 135 140
 2348 Gln Tyr Tyr Asp Ile Ser Ala Lys Ser Asn Tyr Asn Phe Glu Lys Pro
 2349 145 150 155 160
 2350 Phe Leu Trp Leu Ala Arg Lys Leu Ile Gly Asp Pro Asn Leu Glu Phe
 2351 165 170 175
 2352 Val Ala Met Pro Ala Leu Ala Pro Pro Glu Val Val Met Asp Pro Ala
 2353 180 185 190
 2354 Leu Ala Ala Gln Tyr Glu His Asp Leu Glu Val Ala Gln Thr Thr Ala
 2355 195 200 205
 2356 Leu Pro Asp Glu Asp Asp Leu

E--> 2357 ~~325 210~~

2430 <210> SEQ ID NO: 29
 2431 <211> LENGTH: 172
 2432 <212> TYPE: PRF
 2433 <213> ORGANISM: Homo sapiens
 2434 <220> FEATURE:

W--> 2435 <221> NAME/KEY: Translationally controlled tumor protein (TCTP)

2436 <222> LOCATION: (1)..(172) ~~delete~~
 2437 <223> OTHER INFORMATION: (Accession NO: as of 09 Dec 2002: P13693)
 2438 <400> SEQUENCE: 29
 2440 Met Ile Ile Tyr Arg Asp Leu Ile Ser His Asp Glu Met Phe Ser Asp
 2441 1 5 10 15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

2442 Ile Tyr Lys Ile Arg Glu Ile Ala Asp Gly Leu Cys Leu Glu Val Glu
2443                20                25                30
2444 Gly Lys Met Val Ser Arg Thr Glu Gly Asn Ile Asp Asp Ser Leu Ile
2445                35                40                45
2446 Gly Gly Asn Ala Ser Ala Glu Gly Pro Glu Gly Glu Thr Glu Ser
2447                50                55                60
2448 Thr Val Ile Thr Gly Val Asp Ile Val Met Asn His His Leu Gln Glu
2449                65                70                75                80
2450 Thr Ser Phe Thr Lys Glu Ala Tyr Lys Lys Tyr Ile Lys Asp Tyr Met
2451                85                90                95
2452 Lys Ser Ile Lys Gly Lys Leu Glu Glu Gln Arg Pro Glu Arg Val Lys
2453                100               105               110
2454 Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
2455                115               120               125
2456 Phe Lys Asn Tyr Gln Phe Phe Ile Gly Glu Asn Met Asn Pro Asp Gly
2457                130               135               140
2458 Met Val Ala Leu Leu Asp Tyr Arg Glu Asp Gly Val Thr Pro Tyr Met
2459                145               150               155               160
2460 Ile Phe Phe Lys Asp Gly Leu Glu Met Glu Lys Cys
E--> 2461 325 170 165 170
2464 <210> SEQ ID NO: 30
2465 <211> LENGTH: 284
2466 <212> TYPE: PRT
2467 <213> ORGANISM: Homo sapiens
2468 <220> FEATURE:
W--> 2469 <221> NAME/KEY: Tropomyosin 1 alpha chain
2470 <222> LOCATION: (1)..(284)
2471 <223> OTHER INFORMATION: Accession NO: as of 06 Dec 2002: P09493
2472 <400> SEQUENCE: 30
2474 Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Leu Asp Lys Glu
2475 1                5                10                15
2476 Asn Ala Leu Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys Lys Ala Ala
2477                20                25                30
2478 Glu Asp Arg Ser Lys Gln Leu Glu Asp Glu Leu Val Ser Leu Gln Lys
2479                35                40                45
2480 Lys Leu Lys Gly Thr Glu Asp Glu Leu Asp Lys Tyr Ser Glu Ala Leu
2481                50                55                60
2482 Lys Asp Ala Gln Glu Lys Leu Glu Leu Ala Glu Lys Lys Ala Thr Asp
2483 65                70                75                80
2484 Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln Leu Val Glu
2485                85                90                95
2486 Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu Gln Lys
2487                100               105               110
2488 Leu Glu Glu Ala Glu Lys Ala Ala Asp Glu Ser Glu Arg Gly Met Lys
2489                115               120               125
2490 Val Ile Glu Ser Arg Ala Gln Lys Asp Glu Glu Lys Met Glu Ile Gln
2491                130               135               140
2492 Glu Ile Gln Leu Lys Glu Ala Lys His Ile Ala Glu Asp Ala Asp Arg
2493 145               150               155               160

```

Same errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

2494 Lys Tyr Glu Glu Val Ala Arg Lys Leu Val Ile Ile Glu Ser Asp Leu
 2495 165 170 175
 2496 Glu Arg Ala Glu Glu Arg Ala Glu Leu Ser Glu Gly Lys Cys Ala Glu
 2497 180 185 190
 2498 Leu Glu Glu Glu Leu Lys Thr Val Thr Asn Asn Leu Lys Ser Leu Glu
 2499 195 200 205
 2500 Ala Gln Ala Glu Lys Tyr Ser Gln Lys Glu Asp Arg Tyr Glu Glu Glu
 2501 210 215 220
 2502 Ile Lys Val Leu Ser Asp Lys Leu Lys Glu Ala Glu Thr Arg Ala Glu
 2503 225 230 235 240
 2504 Phe Ala Glu Arg Ser Val Thr Lys Leu Glu Lys Ser Ile Asp Asp Leu
 2505 245 250 255
 2506 Glu Asp Glu Leu Tyr Ala Gln Lys Leu Lys Tyr Lys Ala Ile Ser Glu
 2507 260 265 270
 2508 Glu Leu Asp His Ala Leu Asn Asp Met Thr Ser Ile

E--> 2509 ~~325 280 275~~ 280
 2823 <210> SEQ ID NO: 36
 2824 <211> LENGTH: 509
 2825 <212> TYPE: PRT
 2826 <213> ORGANISM: Homo sapiens
 2827 <220> FEATURE:

W--> 2828 <221> NAME/KEY: Dihydrolipoamide dehydrogenase, mitochondrial precursor

same errors

2829 <222> LOCATION: (1)..(509) ~~delete~~
 2830 <223> OTHER INFORMATION: Accession NO: as of 09 Dec 2002: P09622
 2831 <400> SEQUENCE: 36
 2833 Met Gln Ser Trp Ser Arg Val Tyr Cys Ser Leu Ala Lys Arg Gly His
 2834 1 5 10 15
 2835 Phe Asn Arg Ile Ser His Gly Leu Gln Gly Leu Ser Ala Val Pro Leu
 2836 20 25 30
 2837 Arg Thr Tyr Ala Asp Gln Pro Ile Asp Ala Asp Val Thr Val Ile Gly
 2838 35 40 45
 2839 Ser Gly Pro Gly Gly Tyr Val Ala Ala Ile Lys Ala Ala Gln Leu Gly
 2840 50 55 60
 2841 Phe Lys Thr Val Cys Ile Glu Lys Asn Glu Thr Leu Gly Gly Thr Cys
 2842 65 70 75 80
 2843 Leu Asn Val Gly Cys Ile Pro Ser Lys Ala Leu Leu Asn Asn Ser His
 2844 85 90 95
 2845 Tyr Tyr His Met Ala His Gly Thr Asp Phe Ala Ser Arg Gly Ile Glu
 2846 100 105 110
 2847 Met Ser Glu Val Arg Leu Asn Leu Asp Lys Met Met Glu Gln Lys Ser
 2848 115 120 125
 2849 Thr Ala Val Lys Ala Leu Thr Gly Gly Ile Ala His Leu Phe Lys Gln
 2850 130 135 140
 2851 Asn Lys Val Val His Val Asn Gly Tyr Gly Lys Ile Thr Gly Lys Asn
 2852 145 150 155 160
 2853 Gln Val Thr Ala Thr Lys Ala Asp Gly Gly Thr Gln Val Ile Asp Thr
 2854 165 170 175
 2855 Lys Asn Ile Leu Ile Ala Thr Gly Ser Glu Val Thr Pro Phe Pro Gly
 2856 180 185 190

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

2857 Ile Thr Ile Asp Glu Asp Thr Ile Val Ser Ser Thr Gly Ala Leu Ser
 2858 195 200 205
 2859 Leu Lys Lys Val Pro Glu Lys Met Val Val Ile Gly Ala Gly Val Ile
 2860 210 215 220
 2861 Gly Val Glu Leu Gly Ser Val Trp Gln Arg Leu Gly Ala Asp Val Thr
 2862 225 230 235 240
 2863 Ala Val Glu Phe Leu Gly His Val Gly Gly Val Gly Ile Asp Met Glu
 2864 245 250 255
 2865 Ile Ser Lys Asn Phe Gln Arg Ile Leu Gln Lys Gln Gly Phe Lys Phe
 2866 260 265 270
 2867 Lys Leu Asn Thr Lys Val Thr Gly Ala Thr Lys Lys Ser Asp Gly Lys
 2868 275 280 285
 2869 Ile Asp Val Ser Ile Glu Ala Ala Ser Gly Gly Lys Ala Glu Val Ile
 2870 290 295 300
 2871 Thr Cys Asp Val Leu Leu Val Cys Ile Gly Arg Arg Pro Phe Thr Lys
 2872 305 310 315 320
 2873 Asn Leu Gly Leu Glu Glu Leu Gly Ile Glu Leu Asp Pro Arg Gly Arg
 2874 325 330 335
 2875 Ile Pro Val Asn Thr Arg Phe Gln Thr Lys Ile Pro Asn Ile Tyr Ala
 2876 340 345 350
 2877 Ile Gly Asp Val Val Ala Gly Pro Met Leu Ala His Lys Ala Glu Asp
 2878 355 360 365
 2879 Glu Gly Ile Ile Cys Val Glu Gly Met Ala Gly Gly Ala Val His Ile
 2880 370 375 380
 2881 Asp Tyr Asn Cys Val Pro Ser Val Ile Tyr Thr His Pro Glu Val Ala
 2882 385 390 395 400
 2883 Trp Val Gly Lys Ser Glu Glu Gln Leu Lys Glu Glu Gly Ile Glu Tyr
 2884 405 410 415
 2885 Lys Val Gly Lys Phe Pro Phe Ala Ala Asn Ser Arg Ala Lys Thr Asn
 2886 420 425 430
 2887 Ala Asp Thr Asp Gly Met Val Lys Ile Leu Gly Gln Lys Ser Thr Asp
 2888 435 440 445
 2889 Arg Val Leu Gly Ala His Ile Leu Gly Pro Gly Ala Gly Glu Met Val
 2890 450 455 460
 2891 Asn Glu Ala Ala Leu Ala Leu Glu Tyr Gly Ala Ser Cys Glu Asp Ile
 2892 465 470 475 480
 2893 Ala Arg Val Cys His Ala His Pro Thr Leu Ser Glu Ala Phe Arg Glu
 2894 485 490 495
 2895 Ala Asn Leu Ala Ala Ser Phe Gly Lys Ser Ile Asn Phe
 E--> 2896 325 505 500 505
 2897 <210> SEQ ID NO: 39
 2898 <211> LENGTH: 151
 2899 <212> TYPE: PRT
 2900 <213> ORGANISM: Homo sapiens
 2901 <220> FEATURE:
 W--> 2902 <221> NAME/KEY: Myosin light chain alkali, non-muscle isoform
 2903 <222> LOCATION: (1)..(151)
 2904 <223> OTHER INFORMATION: Accession NO: as of 09 Dec 2002: P16475
 2905 <400> SEQUENCE: 39

same errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

2991 Met Cys Asp Phe Thr Glu Asp Gln Thr Ala Glu Phe Lys Glu Ala Phe
 2992 1 5 10 15
 2993 Gln Leu Phe Asp Arg Thr Gly Asp Gly Lys Ile Leu Tyr Ser Gln Cys
 2994 20 25 30
 2995 Gly Asp Val Met Arg Ala Leu Gly Gln Asn Pro Thr Asn Ala Glu Val
 2996 35 40 45
 2997 Leu Lys Val Leu Gly Asn Pro Lys Ser Asp Glu Met Asn Val Lys Val
 2998 50 55 60
 2999 Leu Asp Phe Glu His Phe Leu Pro Met Leu Gln Thr Val Ala Lys Asn
 3000 65 70 75 80
 3001 Lys Asp Gln Gly Thr Tyr Glu Asp Tyr Val Glu Gly Leu Arg Val Phe
 3002 85 90 95
 3003 Asp Lys Glu Gly Asn Gly Thr Val Met Gly Ala Glu Ile Arg His Val
 3004 100 105 110
 3005 Leu Val Thr Leu Gly Glu Lys Met Thr Glu Glu Glu Val Glu Met Leu
 3006 115 120 125
 3007 Val Ala Gly His Glu Asp Ser Asn Gly Cys Ile Asn Tyr Glu Ala Phe
 3008 130 135 140
 3009 Val Arg His Ile Leu Ser Gly
 E--> 3010 145 150 150
 3099 <210> SEQ ID NO: 41
 3100 <211> LENGTH: 282
 3101 <212> TYPE: PRP
 3102 <213> ORGANISM: Homo sapiens
 3103 <220> FEATURE:
 W--> 3104 <221> NAME/KEY: Complement component 1
 3105 <222> LOCATION: (1)..(282) delete
 3106 <223> OTHER INFORMATION: Accession NO: as of 09 Dec 2002: Q07021
 3107 <400> SEQUENCE: 41
 3109 Met Leu Pro Leu Leu Arg Cys Val Pro Arg Val Leu Gly Ser Ser Val
 3110 1 5 10 15
 3111 Ala Gly Leu Arg Ala Ala Ala Pro Ala Ser Pro Phe Arg Gln Leu Leu
 3112 20 25 30
 3113 Gln Pro Ala Pro Arg Leu Cys Thr Arg Pro Phe Gly Leu Leu Ser Val
 3114 35 40 45
 3115 Arg Ala Gly Ser Glu Arg Arg Pro Gly Leu Leu Arg Pro Arg Gly Pro
 3116 50 55 60
 3117 Cys Ala Cys Gly Cys Gly Cys Gly Ser Leu His Thr Asp Gly Asp Lys
 3118 65 70 75 80
 3119 Ala Phe Val Asp Phe Leu Ser Asp Glu Ile Lys Glu Glu Arg Lys Ile
 3120 85 90 95
 3121 Gln Lys His Lys Thr Leu Pro Lys Met Ser Gly Gly Trp Glu Leu Glu
 3122 100 105 110
 3123 Leu Asn Gly Thr Glu Ala Lys Leu Val Arg Lys Val Ala Gly Glu Lys
 3124 115 120 125
 3125 Ile Thr Val Thr Phe Asn Ile Asn Asn Ser Ile Pro Pro Thr Phe Asp
 3126 130 135 140
 3127 Gly Glu Glu Glu Pro Ser Gln Gly Gln Lys Val Glu Glu Gln Glu Pro
 3128 145 150 155 160

same errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

3129 Glu Leu Thr Ser Thr Pro Asn Phe Val Val Glu Val Ile Lys Asn Asp
 3130 165 170 175
 3131 Asp Gly Lys Lys Ala Leu Val Leu Asp Cys His Tyr Pro Glu Asp Glu
 3132 180 185 190
 3133 Val Gly Gln Glu Asp Glu Ala Glu Ser Asp Ile Phe Ser Ile Arg Glu
 3134 195 200 205
 3135 Val Ser Phe Gln Ser Thr Gly Glu Ser Glu Trp Lys Asp Thr Asn Tyr
 3136 210 215 220
 3137 Thr Leu Asn Thr Asp Ser Leu Asp Trp Ala Leu Tyr Asp His Leu Met
 3138 225 230 235 240
 3139 Asp Phe Leu Ala Asp Arg Gly Val Asp Asn Thr Phe Ala Asp Glu Leu
 3140 245 250 255
 3141 Val Glu Leu Ser Thr Ala Leu Glu His Gln Glu Tyr Ile Thr Phe Leu
 3142 260 265 270
 3143 Glu Asp Leu Lys Ser Phe Val Lys Ser Gln
 E--> 3144 ~~325 280 275~~ 280
 3252 <210> SEQ ID NO: 43
 3253 <211> LENGTH: 491
 3254 <212> TYPE: PRT
 3255 <213> ORGANISM: Homo sapiens
 3256 <220> FEATURE:
 W--> 3257 <221> NAME/KEY: Pre-B cell enhancing factor precursor
 3258 <222> LOCATION: (1)..(491) *alter*
 3259 <223> OTHER INFORMATION: Accession NO: as of 09 Dec 2002: P43490
 3260 <400> SEQUENCE: 43
 3262 Met Asn Pro Ala Ala Glu Ala Glu Phe Asn Ile Leu Leu Ala Thr Asp
 3263 1 5 10 15
 3264 Ser Tyr Lys Val Thr His Tyr Lys Gln Tyr Pro Pro Asn Thr Ser Lys
 3265 20 25 30
 3266 Val Tyr Ser Tyr Phe Glu Cys Arg Glu Lys Lys Thr Glu Asn Ser Lys
 3267 35 40 45
 3268 Leu Arg Lys Val Lys Tyr Glu Glu Thr Val Phe Tyr Gly Leu Gln Tyr
 3269 50 55 60
 3270 Ile Leu Asn Lys Tyr Leu Lys Gly Lys Val Val Thr Lys Glu Lys Ile
 3271 65 70 75 80
 3272 Gln Glu Ala Lys Asp Val Tyr Lys Glu His Phe Gln Asp Asp Val Phe
 3273 85 90 95
 3274 Asn Glu Lys Gly Trp Asn Tyr Ile Leu Glu Lys Tyr Asp Gly His Leu
 3275 100 105 110
 3276 Pro Ile Glu Ile Lys Ala Val Pro Glu Gly Phe Val Ile Pro Arg Gly
 3277 115 120 125
 3278 Asn Val Leu Phe Thr Val Glu Asn Thr Asp Pro Glu Cys Tyr Trp Leu
 3279 130 135 140
 3280 Thr Asn Trp Ile Glu Thr Ile Leu Val Gln Ser Trp Tyr Pro Ile Thr
 3281 145 150 155 160
 3282 Val Ala Thr Asn Ser Arg Glu Gln Lys Lys Ile Leu Ala Lys Tyr Leu
 3283 165 170 175
 3284 Leu Glu Thr Ser Gly Asn Leu Asp Gly Leu Glu Tyr Lys Leu His Asp
 3285 180 185 190

Same errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

3286 Phe Gly Tyr Arg Gly Val Ser Ser Gln Glu Thr Ala Gly Ile Gly Ala
3287      195      200      205
3288 Ser Ala His Leu Val Asn Phe Lys Gly Thr Asp Thr Val Ala Gly Leu
3289      210      215      220
3290 Ala Leu Ile Lys Lys Tyr Tyr Gly Thr Lys Asp Pro Val Pro Gly Tyr
3291      225      230      235      240
3292 Ser Val Pro Ala Ala Glu His Ser Thr Ile Thr Ala Trp Gly Lys Asp
3293      245      250      255
3294 His Glu Lys Asp Ala Phe Glu His Ile Val Thr Gln Phe Ser Ser Val
3295      260      265      270
3296 Pro Val Ser Val Val Ser Asp Ser Tyr Asp Ile Tyr Asn Ala Cys Glu
3297      275      280      285
3298 Lys Ile Trp Gly Glu Asp Leu Arg His Leu Ile Val Ser Arg Ser Thr
3299      290      295      300
3300 Gln Ala Pro Leu Ile Ile Arg Pro Asp Ser Gly Asn Pro Leu Asp Thr
3301      305      310      315      320
3302 Val Leu Lys Val Leu Glu Ile Leu Gly Lys Lys Phe Pro Val Thr Glu
3303      325      330      335
3304 Asn Ser Lys Gly Tyr Lys Leu Leu Pro Pro Tyr Leu Arg Val Ile Gln
3305      340      345      350
3306 Gly Asp Gly Val Asp Ile Asn Thr Leu Gln Glu Ile Val Glu Gly Met
3307      355      360      365
3308 Lys Gln Lys Met Trp Ser Ile Glu Asn Ile Ala Phe Gly Ser Gly Gly
3309      370      375      380
3310 Gly Leu Leu Gln Lys Leu Thr Arg Asp Leu Leu Asn Cys Ser Phe Lys
3311      385      390      395      400
3312 Cys Ser Tyr Val Val Thr Asn Gly Leu Gly Ile Asn Val Phe Lys Asp
3313      405      410      415
3314 Pro Val Ala Asp Pro Asn Lys Arg Ser Lys Lys Gly Arg Leu Ser Leu
3315      420      425      430
3316 His Arg Thr Pro Ala Gly Asn Phe Val Thr Leu Glu Glu Gly Lys Gly
3317      435      440      445
3318 Asp Leu Glu Glu Tyr Gly Gln Asp Leu Leu His Thr Val Phe Lys Asn
3319      450      455      460
3320 Gly Lys Val Thr Lys Ser Tyr Ser Phe Asp Glu Ile Arg Lys Asn Ala
3321      465      470      475      480
3322 Gln Leu Asn Ile Glu Leu Glu Ala Ala His His
3323 325 490 485 490
3326 <210> SEQ ID NO: 44
3327 <211> LENGTH: 135
3328 <212> TYPE: PRT
3329 <213> ORGANISM: Homo sapiens
3330 <220> FEATURE:
W--> 3331 <221> NAME/KEY: Retinol-binding protein I, cellular
3332 <222> LOCATION: (1)..(135) delete
3333 <223> OTHER INFORMATION: Accession NO: as of 09 Dec 2002: P09455
3334 <400> SEQUENCE: 44
3336 Met Pro Val Asp Phe Thr Gly Tyr Trp Lys Met Leu Val Asn Glu Asn
3337 1 5 10 15

```

Some errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

3338 Phe Glu Glu Tyr Leu Arg Ala Leu Asp Val Asn Val Ala Leu Arg Lys
3339                20                25                30
3340 Ile Ala Asn Leu Leu Lys Pro Asp Lys Glu Ile Val Gln Asp Gly Asp
3341                35                40                45
3342 His Met Ile Ile Arg Thr Leu Ser Thr Phe Arg Asn Tyr Ile Met Asp
3343                50                55                60
3344 Phe Gln Val Gly Lys Glu Phe Glu Glu Asp Leu Thr Gly Ile Asp Asp
3345        65                70                75                80
3346 Arg Lys Cys Met Thr Thr Val Ser Trp Asp Gly Asp Lys Leu Gln Cys
3347                85                90                95
3348 Val Gln Lys Gly Glu Lys Glu Gly Arg Gly Trp Thr Gln Trp Ile Glu
3349                100               105               110
3350 Gly Asp Glu Leu His Leu Glu Met Arg Val Glu Gly Val Val Cys Lys
3351                115               120               125
3352 Gln Val Phe Lys Lys Val Gln

```

E-->

3353 325 130 135

3558 <210> SEQ ID NO: 48

3559 <211> LENGTH: 172

3560 <212> TYPE: PRT

3561 <213> ORGANISM: Homo sapiens

3562 <220> FEATURE:

W-->

3563 <221> NAME/KEY: Myosin regulatory light chain 2

3564 <222> LOCATION: (1)..(172) delete

3565 <223> OTHER INFORMATION: Accession NO: as of 10 Dec 2002: P24844

3566 <400> SEQUENCE: 48

3568 Met Ser Ser Lys Arg Ala Lys Ala Lys Thr Thr Lys Lys Arg Pro Gln

3569 1 5 10 15

3570 Arg Ala Thr Ser Asn Val Phe Ala Met Phe Asp Gln Ser Gln Ile Gln

3571 20 25 30

3572 Glu Phe Lys Glu Ala Phe Asn Met Ile Asp Gln Asn Arg Asp Gly Phe

3573 35 40 45

3574 Ile Asp Lys Glu Asp Leu His Asp Met Leu Ala Ser Leu Gly Lys Asn

3575 50 55 60

3576 Pro Thr Asp Glu Tyr Leu Glu Gly Met Met Ser Glu Ala Pro Gly Pro

3577 65 70 75 80

3578 Ile Asn Phe Thr Met Phe Leu Thr Met Phe Gly Glu Lys Leu Asn Gly

3579 85 90 95

3580 Thr Asp Pro Glu Asp Val Ile Arg Asn Ala Phe Ala Cys Phe Asp Glu

3581 100 105 110

3582 Glu Ala Ser Gly Phe Ile His Glu Asp His Leu Arg Glu Leu Leu Thr

3583 115 120 125

3584 Thr Met Gly Asp Arg Phe Thr Asp Glu Glu Val Asp Glu Met Tyr Arg

3585 130 135 140

3586 Glu Ala Pro Ile Asp Lys Lys Gly Asn Phe Asn Tyr Val Glu Phe Thr

3587 145 150 155 160

3588 Arg Ile Leu Lys His Gly Ala Lys Asp Lys Asp Asp

E-->

3589 325 170 165 170

3620 <210> SEQ ID NO: 50

3621 <211> LENGTH: 348

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

3622 <212> TYPE: PRP
 3623 <213> ORGANISM: Homo sapiens
 3624 <220> FEATURE:
 W--> 3625 <221> NAME/KEY: Macrophage capping protein
 3626 <222> LOCATION: (1)..(348) clpR
 3627 <223> OTHER INFORMATION: Accession NO: as of 10 Dec 2002: P40121
 3628 <400> SEQUENCE: 50
 3630 Met Tyr Thr Ala Ile Pro Gln Ser Gly Ser Pro Phe Pro Gly Ser Val
 3631 1 5 10 15
 3632 Gln Asp Pro Gly Leu His Val Trp Arg Val Glu Lys Leu Lys Pro Val
 3633 20 25 30
 3634 Pro Val Ala Gln Glu Asn Gln Gly Val Phe Phe Ser Gly Asp Ser Tyr
 3635 35 40 45
 3636 Leu Val Leu His Asn Gly Pro Glu Glu Val Ser His Leu His Leu Trp
 3637 50 55 60
 3638 Ile Gly Gln Gln Ser Ser Arg Asp Glu Gln Gly Ala Cys Ala Val Leu
 3639 65 70 75 80
 3640 Ala Val His Leu Asn Thr Leu Leu Gly Glu Arg Pro Val Gln His Arg
 3641 85 90 95
 3642 Glu Val Gln Gly Asn Glu Ser Asp Leu Phe Met Ser Tyr Phe Pro Arg
 3643 100 105 110
 3644 Gly Leu Lys Tyr Gln Glu Gly Gly Val Glu Ser Ala Phe His Lys Thr
 3645 115 120 125
 3646 Ser Thr Gly Ala Pro Ala Ala Ile Lys Lys Leu Tyr Gln Val Lys Gly
 3647 130 135 140
 3648 Lys Lys Asn Ile Arg Ala Thr Glu Arg Ala Leu Asn Trp Asp Ser Phe
 3649 145 150 155 160
 3650 Asn Thr Gly Asp Cys Phe Ile Leu Asp Leu Gly Gln Asn Ile Phe Ala
 3651 165 170 175
 3652 Trp Cys Gly Gly Lys Ser Asn Ile Leu Glu Arg Asn Lys Ala Arg Asp
 3653 180 185 190
 3654 Leu Ala Leu Ala Ile Arg Asp Ser Glu Arg Gln Gly Lys Ala Gln Val
 3655 195 200 205
 3656 Glu Ile Val Thr Asp Gly Glu Glu Pro Ala Glu Met Ile Gln Val Leu
 3657 210 215 220
 3658 Gly Pro Lys Pro Ala Leu Lys Glu Gly Asn Pro Glu Glu Asp Leu Thr
 3659 225 230 235 240
 3660 Ala Asp Lys Ala Asn Ala Gln Ala Ala Ala Leu Tyr Lys Val Ser Asp
 3661 245 250 255
 3662 Ala Thr Gly Gln Met Asn Leu Thr Lys Val Ala Asp Ser Ser Pro Phe
 3663 260 265 270
 3664 Ala Leu Glu Leu Leu Ile Ser Asp Asp Cys Phe Val Leu Asp Asn Gly
 3665 275 280 285
 3666 Leu Cys Gly Lys Ile Tyr Ile Trp Lys Gly Arg Lys Ala Asn Glu Lys
 3667 290 295 300
 3668 Glu Arg Gln Ala Ala Leu Gln Val Ala Glu Gly Phe Ile Ser Arg Met
 3669 305 310 315 320
 3670 Gln Tyr Ala Pro Asn Thr Gln Val Glu Ile Leu Pro Gln Gly Arg Glu
 3671 325 330 335

Same errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

3672 Ser Pro Ile Phe Lys Gln Phe Phe Lys Asp Trp Lys
 E--> 3673 (325 345) 340
 3676 <210> SEQ ID NO: 51
 3677 <211> LENGTH: 346
 3678 <212> TYPE: PRP
 3679 <213> ORGANISM: Homo sapiens
 3680 <220> FEATURE:
 W--> 3681 <221> NAME/KEY: Annexin I
 3682 <222> LOCATION: (1)..(346)
 3683 <223> OTHER INFORMATION: Accession NO: as of 10 Dec 2002: P04083
 3684 <400> SEQUENCE: 51
 3686 Met Ala Met Val Ser Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn
 3687 1 5 10 15
 3688 Glu Glu Gln Glu Tyr Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro
 3689 20 25 30
 3690 Gly Ser Ala Val Ser Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val
 3691 35 40 45
 3692 Ala Ala Leu His Lys Ala Ile Met Val Lys Gly Val Asp Glu Ala Thr
 3693 50 55 60
 3694 Ile Ile Asp Ile Leu Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile
 3695 65 70 75 80
 3696 Lys Ala Ala Tyr Leu Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu
 3697 85 90 95
 3698 Lys Lys Ala Leu Thr Gly His Leu Glu Val Val Leu Ala Leu Leu
 3699 100 105 110
 3700 Lys Thr Pro Ala Gln Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys
 3701 115 120 125
 3702 Gly Leu Gly Thr Asp Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg
 3703 130 135 140
 3704 Thr Asn Lys Glu Ile Arg Asp Ile Asn Arg Val Tyr Arg Glu Glu Leu
 3705 145 150 155 160
 3706 Lys Arg Asp Leu Ala Lys Asp Ile Thr Ser Asp Thr Ser Gly Asp Phe
 3707 165 170 175
 3708 Arg Asn Ala Leu Ser Leu Ala Lys Gly Asp Arg Ser Glu Asp Phe
 3709 180 185 190
 3710 Gly Val Asn Glu Asp Leu Ala Asp Ser Asp Ala Arg Ala Leu Tyr Glu
 3711 195 200 205
 3712 Ala Gly Glu Arg Arg Lys Gly Thr Asp Val Asn Val Phe Asn Thr Ile
 3713 210 215 220
 3714 Leu Thr Thr Arg Ser Tyr Pro Gln Leu Arg Arg Val Phe Gln Lys Tyr
 3715 225 230 235 240
 3716 Thr Lys Tyr Ser Lys His Asp Met Asn Lys Val Leu Asp Leu Glu Leu
 3717 245 250 255
 3718 Lys Gly Asp Ile Glu Lys Cys Leu Thr Ala Ile Val Lys Cys Ala Thr
 3719 260 265 270
 3720 Ser Lys Pro Ala Phe Phe Ala Glu Lys Leu His Gln Ala Met Lys Gly
 3721 275 280 285
 3722 Val Gly Thr Arg His Lys Ala Leu Ile Arg Ile Met Val Ser Arg Ser
 3723 290 295 300

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

3724 Glu Ile Asp Met Asn Asp Ile Lys Ala Phe Tyr Gln Lys Met Tyr Gly
 3725 305 310 315 320
 3726 Ile Ser Leu Cys Gln Ala Ile Leu Asp Glu Thr Lys Gly Asp Tyr Glu
 3727 325 330 335
 3728 Lys Ile Leu Val Ala Leu Cys Gly Gly Asn
 E--> 3728 (325 345) 340 345
 7150 <210> SEQ ID NO: 98
 7151 <211> LENGTH: 654
 7152 <212> TYPE: PRT
 7153 <213> ORGANISM: Homo sapiens
 7154 <220> FEATURE:
 W--> 7155 <221> NAME/KEY: GRP 78 delete
 7156 <222> LOCATION: (1)..(654)
 7157 <223> OTHER INFORMATION: Accession NO: as of 29 August 2003: P11021
 7158 <220> FEATURE:
 7159 <221> NAME/KEY: misc_feature
 7160 <222> LOCATION: (302)..(302)
 7161 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 7162 <220> FEATURE:
 7163 <221> NAME/KEY: misc_feature
 7164 <222> LOCATION: (329)..(329)
 7165 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 7166 <220> FEATURE:
 7167 <221> NAME/KEY: misc_feature
 7168 <222> LOCATION: (344)..(344)
 7169 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 7170 <220> FEATURE:
 7171 <221> NAME/KEY: misc_feature
 7172 <222> LOCATION: (461)..(461)
 7173 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 7174 <400> SEQUENCE: 98
 7176 Met Lys Leu Ser Leu Val Ala Ala Met Leu Leu Leu Leu Ser Ala
 7177 1 5 10 15
 7178 Ala Arg Ala Lys Glu Glu Asp Met Gly Thr Val Val Ala Ile His Leu
 7179 20 25 30
 7180 Gly Thr Thr Tyr Pro Cys Val Gly Val Phe Lys Asn Gly Arg Met Glu
 7181 35 40 45
 7182 Ile Ile Ala Asn Asp Gln Gly Asn Arg Ile Met Pro Ser Tyr Val Ala
 7183 50 55 60
 7184 Phe Thr Pro Glu Gly Glu Cys Leu Ile Gly Asp Ala Ala Lys Asn Gln
 7185 65 70 75 80
 7186 Leu Thr Ser Asn Pro Lys Asn Thr Val Phe Asp Ala Lys Arg Leu Ile
 7187 85 90 95
 7188 Gly Arg Arg Trp His Asp Pro Ser Val Gln Gln Asp Ile Glu Phe Leu
 7189 100 105 110
 7190 Pro Phe Lys Val Val Glu Lys Asn Thr Lys Ser Tyr Ile Gln Ile Asp
 7191 115 120 125
 7192 Val Gly Gly Gly Gln Thr Lys Thr Phe Ala Pro Lys Glu Ile Ser Ala
 7193 130 135 140

Same errors

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

```

7194 Met Val Leu Thr Lys Met Lys Glu Asn Ala Glu Ala Tyr Leu Gly Lys
7195 145 150 155 160
7196 Val Thr His Ala Val Val Thr Ala Pro Ala Tyr Phe Asn Asp Ala Gln
7197 165 170 175
7198 Cys Gln Ala Thr Lys Asp Ala Gly Thr Ile Ala Asp Leu Asn Val Met
7199 180 185 190
7200 Arg Ile Ile Asn Lys Pro Thr Ala Ala Ala Ile Ala Tyr Gly Leu Asp
7201 195 200 205
7202 Lys Arg Glu Gly Glu Lys Asn Ile Leu Val Phe Asp Leu Gly Gly Gly
7203 210 215 220
7204 Thr Phe Asp Val Ser Leu Leu Thr Ile Asp Asn Gly Val Phe Lys Val
7205 225 230 235 240
7206 Val Ala Thr Asn Gly Asp Thr Tyr Leu Gly Gly Glu Asp Phe Asp Gln
7207 245 250 255
7208 Arg Val Met Glu His Phe Ile Lys Leu Tyr Lys Lys Lys Thr Gly Lys
7209 260 265 270
7210 Asp Val Arg Lys Asp Asn Arg Ala Val Gln Lys Leu Trp Arg Lys Val
7211 275 280 285
W--> 7212 Glu Lys Ala Lys Arg Ala Leu Ser Ser Gln His Gln Ala Xaa Val Ile
7213 290 295 300
7214 Glu Ile Glu Ser Phe Tyr Glu Gly Glu Asp Phe Ser Glu Thr Leu Thr
7215 305 310 315 320
7216 Gln Ala Lys Phe Glu Glu Leu Asn Xaa Asp Leu Phe Gln Ser Thr Met
7217 325 330 335
7218 Lys Pro Ser Gln Arg Ser Val Xaa Lys Val Leu Glu Asp Ser Asp Leu
7219 340 345 350
7220 Lys Lys Ser Asp Ile Asp Glu Thr Val Leu Val Gly Gly Phe Thr Gln
7221 355 360 365
7222 Ile Pro Lys Ile Gln Gln Leu Val Lys Glu Phe Phe Asn Gly Lys Glu
7223 370 375 380
7224 Leu Ser Arg Gly Ile Ser Pro Tyr Glu Ala Val Ala Tyr Gly Ala Ala
7225 385 390 395 400
7226 Val Gln Ala Gly Val Leu Ser Gly Asp Gln Asp Thr Gly Asp Leu Val
7227 405 410 415
7228 Leu Leu Asp Ile Cys Pro Leu Thr Leu Gly Ile Glu Thr Val Gly Gly
7229 420 425 430
7230 Val Met Thr Lys Leu Ile Pro Arg Asn Thr Val Val Pro Thr Lys Lys
7231 435 440 445
7232 Ser Gln Ile Phe Ser Thr Ala Phe Asp Asn Gln Pro Xaa Thr Ile Lys
7233 450 455 460
7234 Val Tyr Glu Gly Lys Gln Pro Leu Thr Lys Asp Asn His Leu Leu Gly
7235 465 470 475 480
7236 Thr Phe Asp Leu Thr Gly Ile Pro Pro Ala Pro Cys Gly Val Pro Gln
7237 485 490 495
7238 Ile Glu Val Thr Phe Glu Met Asp Val Ser Asp Ile Leu Gln Val Thr
7239 500 505 510
7240 Ala Lys Asp Lys Gly Thr Arg Tyr Lys Asn Lys Ile Thr Ile Thr Asn
7241 515 520 525
7242 Asp Gln Asn His Leu Thr Pro Glu Asp Ile Glu Arg Met Val Asn Asp

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:49

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

7243	530	535	540
7244	Ala Glu Lys Phe Ala Glu Glu Asp Lys Lys Leu Lys Glu Cys Thr Asp		
7245	545	550	555
7246	Thr Arg Asn Glu Leu Glu Ser Tyr Ala Tyr Ser Leu Lys Asn Gln Ile		560
7247		565	570
7248	Gly Asp Lys Glu Lys Leu Gly Gly Lys Leu Ser Ser Glu Asp Lys Glu		575
7249		580	585
7250	Thr Met Glu Lys Thr Val Glu Glu Lys Thr Glu Trp Leu Glu Ser His		590
7251		595	600
7252	Gln Asp Ala Asp Thr Glu Asp Phe Lys Ala Lys Lys Lys Glu Leu Glu		605
7253		610	615
7254	Glu Ile Val Gln Pro Ile Ile Ser Lys Leu Tyr Gly Ser Ala Gly Pro		620
7255	625	630	635
7256	Pro Pro Thr Gly Glu Glu Asp Thr Ala Glu Lys Asp Glu Leu		640
E--> 7257	325 650	645	650

file

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:51

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:22 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1.
L:78 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:86 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:142 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:150 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:260 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:360 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:368 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:494 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:584 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
L:592 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:708 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
L:716 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:784 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:1144 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:1182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:1226 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12
L:1330 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12
L:1338 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:1400 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:13
L:1408 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
L:1472 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:1520 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:1570 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:1606 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:17
L:1614 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:1662 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:18
L:1670 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:1726 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:1792 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:1826 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:1860 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:1952 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:2006 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:2232 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:2325 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:2357 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:27
L:2365 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:2435 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:2461 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:29
L:2469 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:2509 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:30
L:2517 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:2591 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:2665 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:2728 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/733,969

DATE: 12/29/2003

TIME: 08:11:51

Input Set : A:\21525 sequence listing.txt

Output Set: N:\CRF4\12292003\J733969.raw

L:2782 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:35
L:2828 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:36
L:2896 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:36
L:2904 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37
L:2954 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:38
L:2986 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:39
L:3010 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:39
L:3018 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:40
L:3104 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:41
L:3144 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:41
L:3152 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:42
L:3153 M:257 W: Feature value mis-spelled or invalid, Describe feature in <223> for SEQ ID#:42
L:3257 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:3323 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:43
L:3331 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:3353 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:44
L:3361 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45
L:3441 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:46
L:3511 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:47
L:3563 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:3589 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:48
L:3597 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:3673 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:50
L:3729 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:51
L:4055 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:55
L:4129 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:56
L:4237 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:58
L:4547 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:62
L:4573 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:63
L:5631 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:77
L:5715 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:78
L:6029 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:82
L:6599 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:90
L:7005 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:95
L:7212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:288
M:341 Repeated in SeqNo=98
M:332 Repeated in SeqNo=98
L:7395 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:100
L:7733 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:105
L:7781 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:106